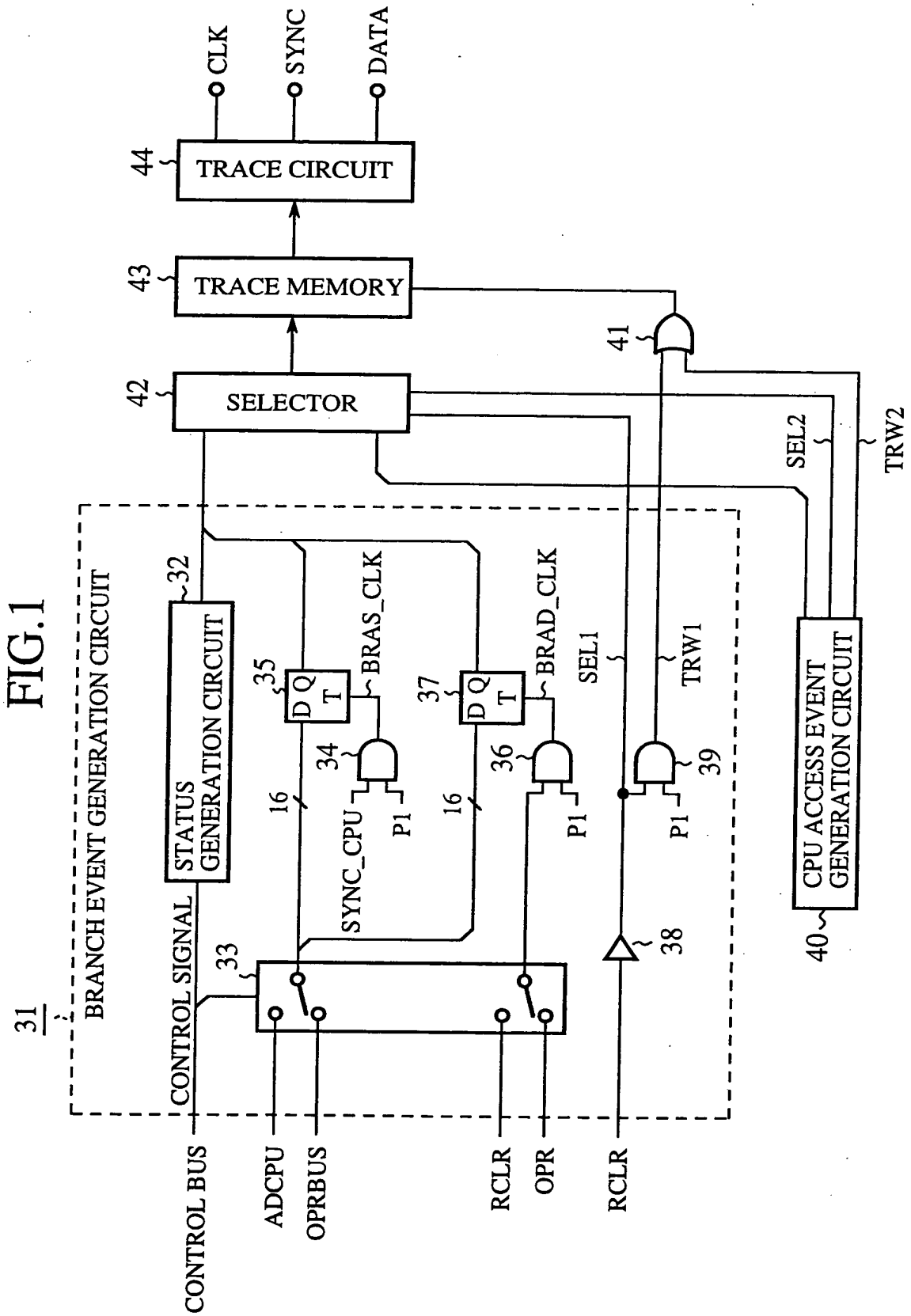
FIG.1


CLK
SYNC
DATA
44
TRACE CIRCUIT
43
TRACE MEMORY
42
SELECTOR
41
SEL2
TRW2
31
BRANCH EVENT GENERATION CIRCUIT
32
STATUS GENERATION CIRCUIT
35
D Q
T
BRAS_CLK
37
BRAD_CLK
SEL1
TRW1
34
36
39
16
16
P1
P1
P1
SYNC_CPU
CPU ACCESS EVENT GENERATION CIRCUIT
40
38
33
CONTROL SIGNAL
CONTROL BUS
ADCPU
OPRBUS
RCLR
OPR
RCLR

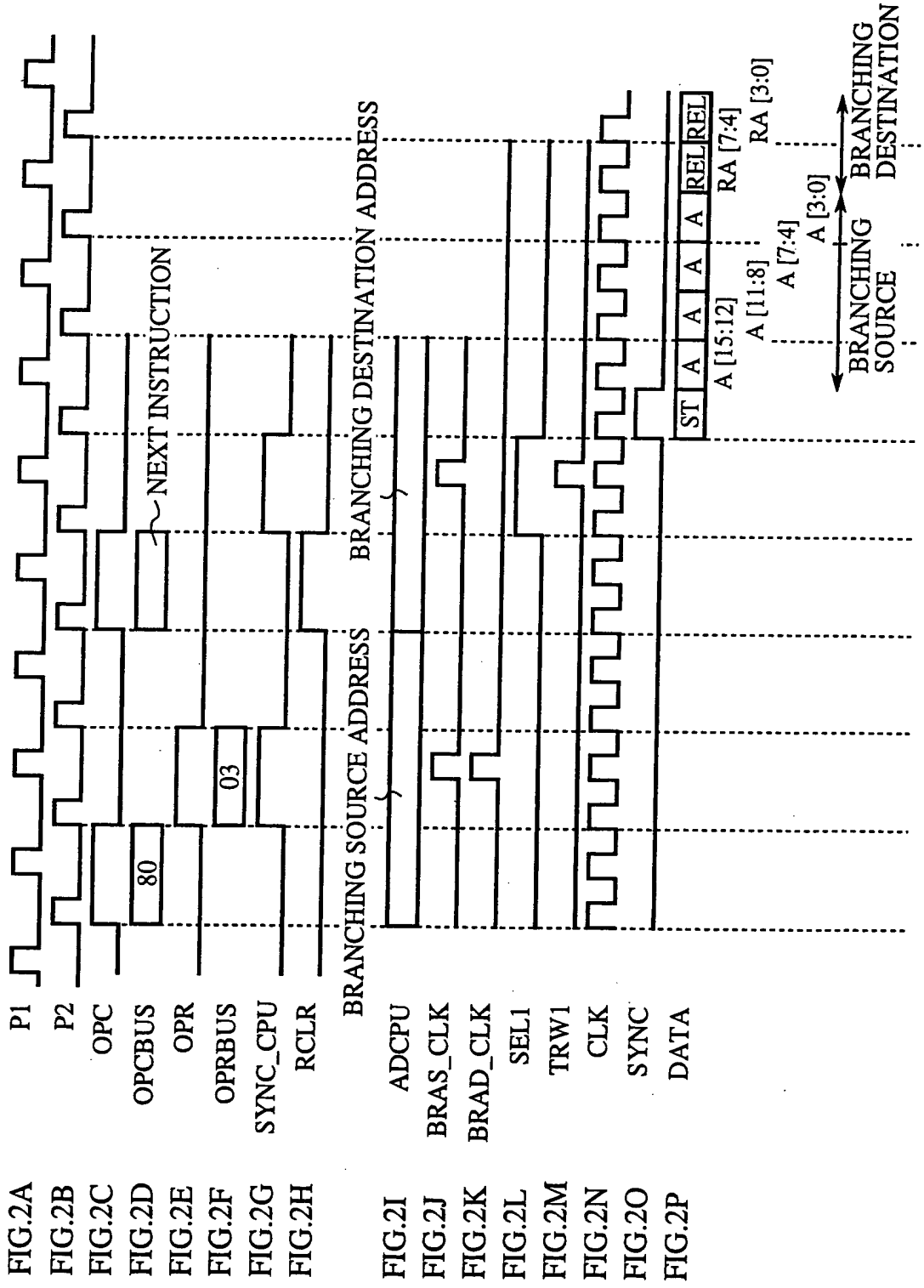
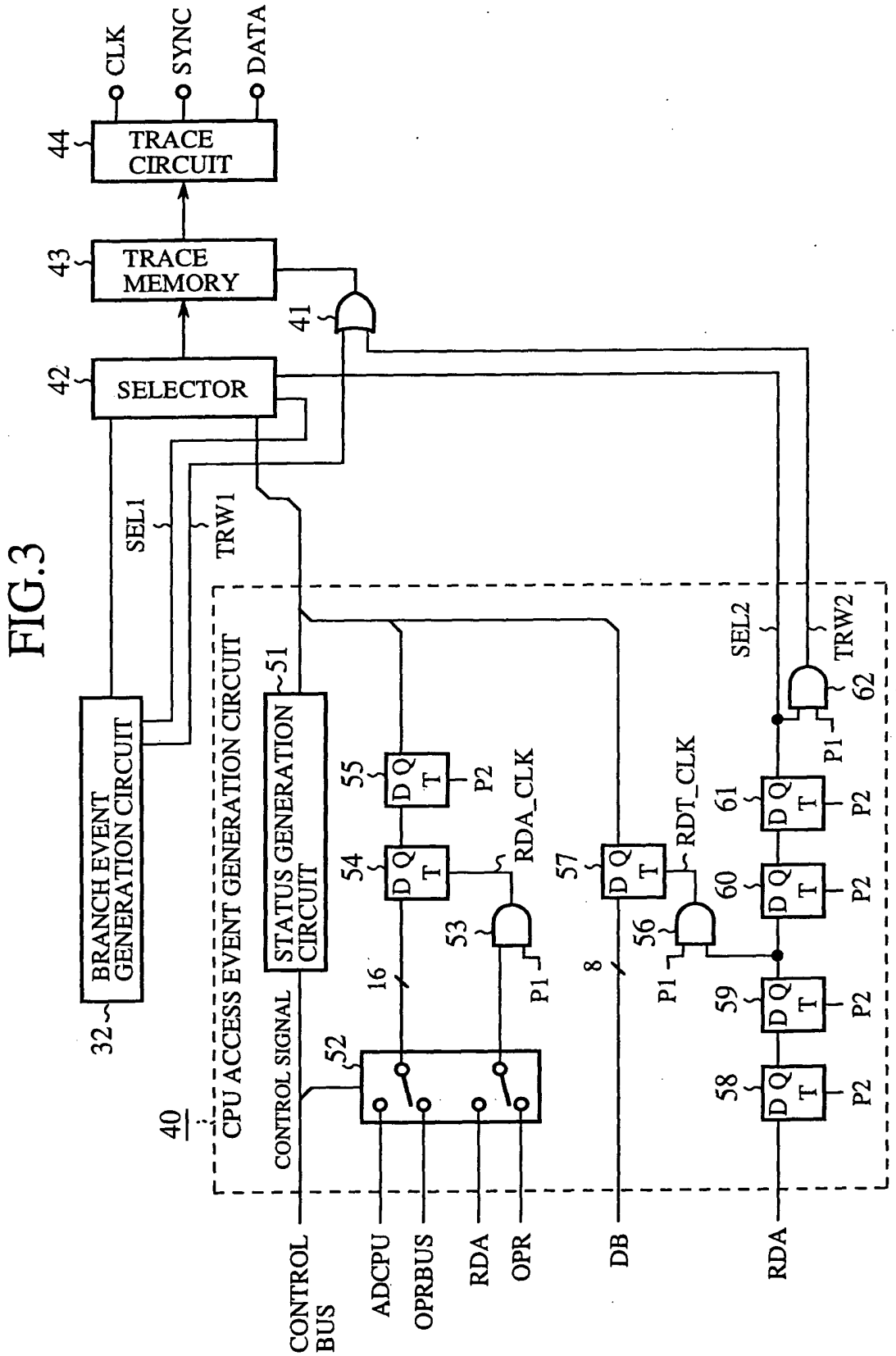


FIG.2A FIG.2B FIG.2C FIG.2D FIG.2E FIG.2F FIG.2G FIG.2H FIG.2I FIG.2J FIG.2K FIG.2L FIG.2M FIG.2N FIG.2O FIG.2P

FIG.3


CLK
SYNC
DATA
44
TRACE CIRCUIT
43
TRACE MEMORY
41
42
SELECTOR
SEL1
TRW1
SEL2
TRW2
BRANCH EVENT GENERATION CIRCUIT
32
STATUS GENERATION CIRCUIT
51
CPU ACCESS EVENT GENERATION CIRCUIT
40
CONTROL SIGNAL
16
8
52
53
54
55
56
57
58
59
60
61
62
D Q T
P1
P2
RDA_CLK
RDT_CLK
CONTROL BUS
ADCPU
OPRBUS
RDA
OPR
DB
RDA

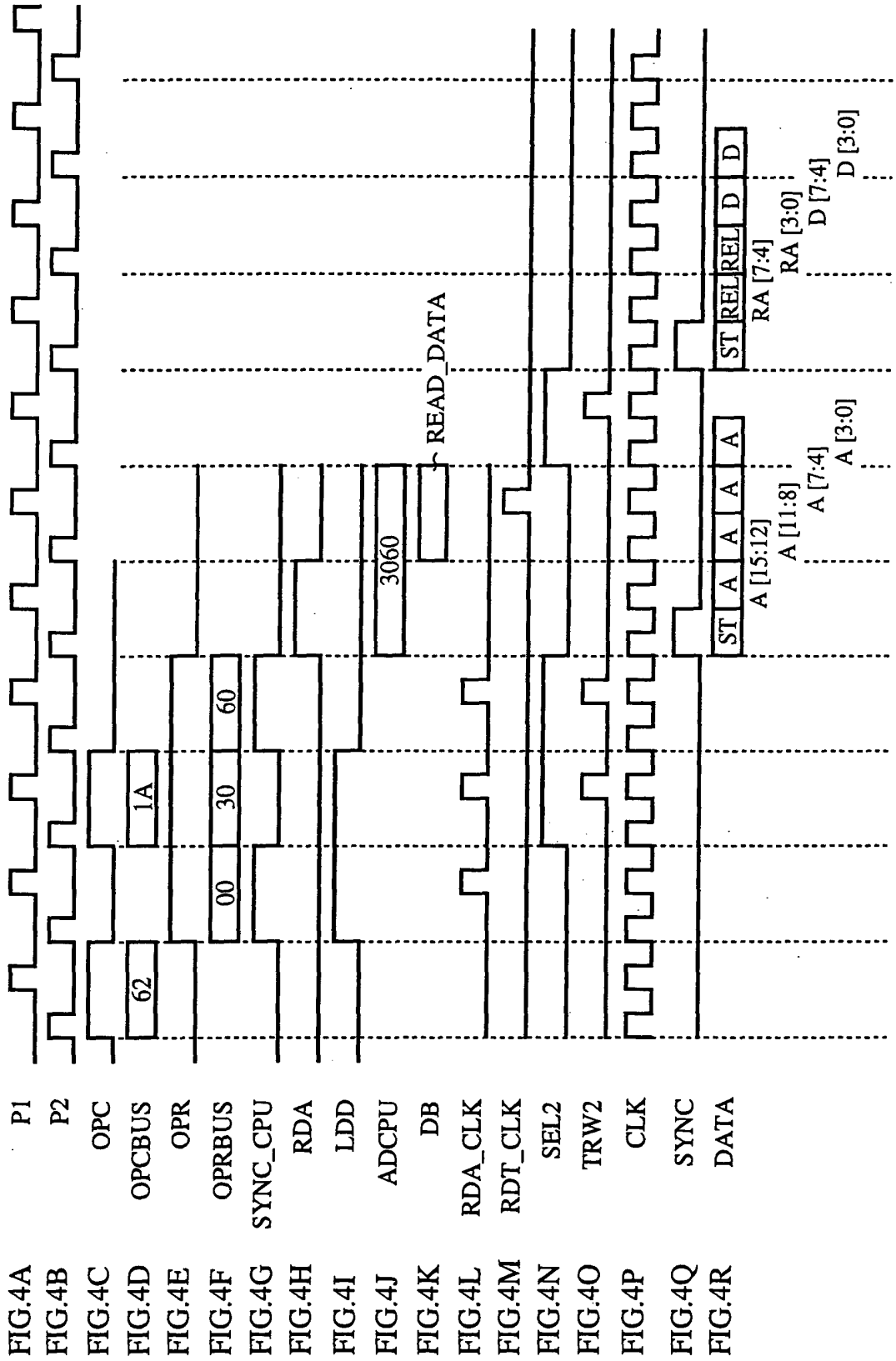
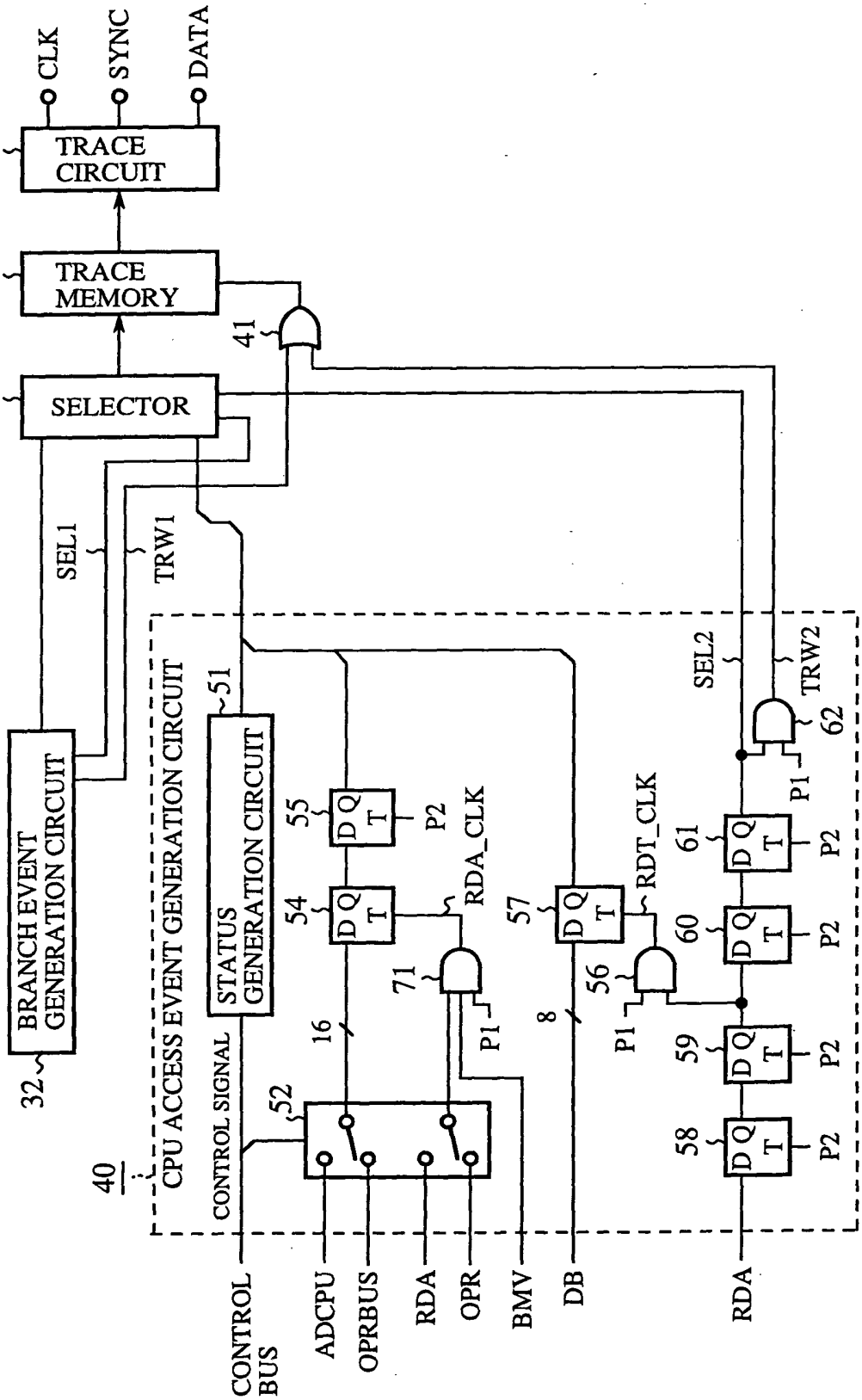


FIG.4A FIG.4B FIG.4C FIG.4D FIG.4E FIG.4F FIG.4G FIG.4H FIG.4I FIG.4J FIG.4K FIG.4L FIG.4M FIG.4N FIG.4O FIG.4P FIG.4Q FIG.4R

FIG.5


CLK
SYNC
DATA
72
TRACE CIRCUIT
43
TRACE MEMORY
41
42
SELECTOR
SEL1
TRW1
SEL2
TRW2
BRANCH EVENT GENERATION CIRCUIT
32
CPU ACCESS EVENT GENERATION CIRCUIT
40
STATUS GENERATION CIRCUIT
51
CONTROL SIGNAL
52
16
8
55
54
57
61
60
59
58
62
71
56
D Q T
P1
P2
RDA_CLK
RDT_CLK
CONTROL BUS
ADCPU
OPRBUS
RDA
OPR
BMV
DB
RDA

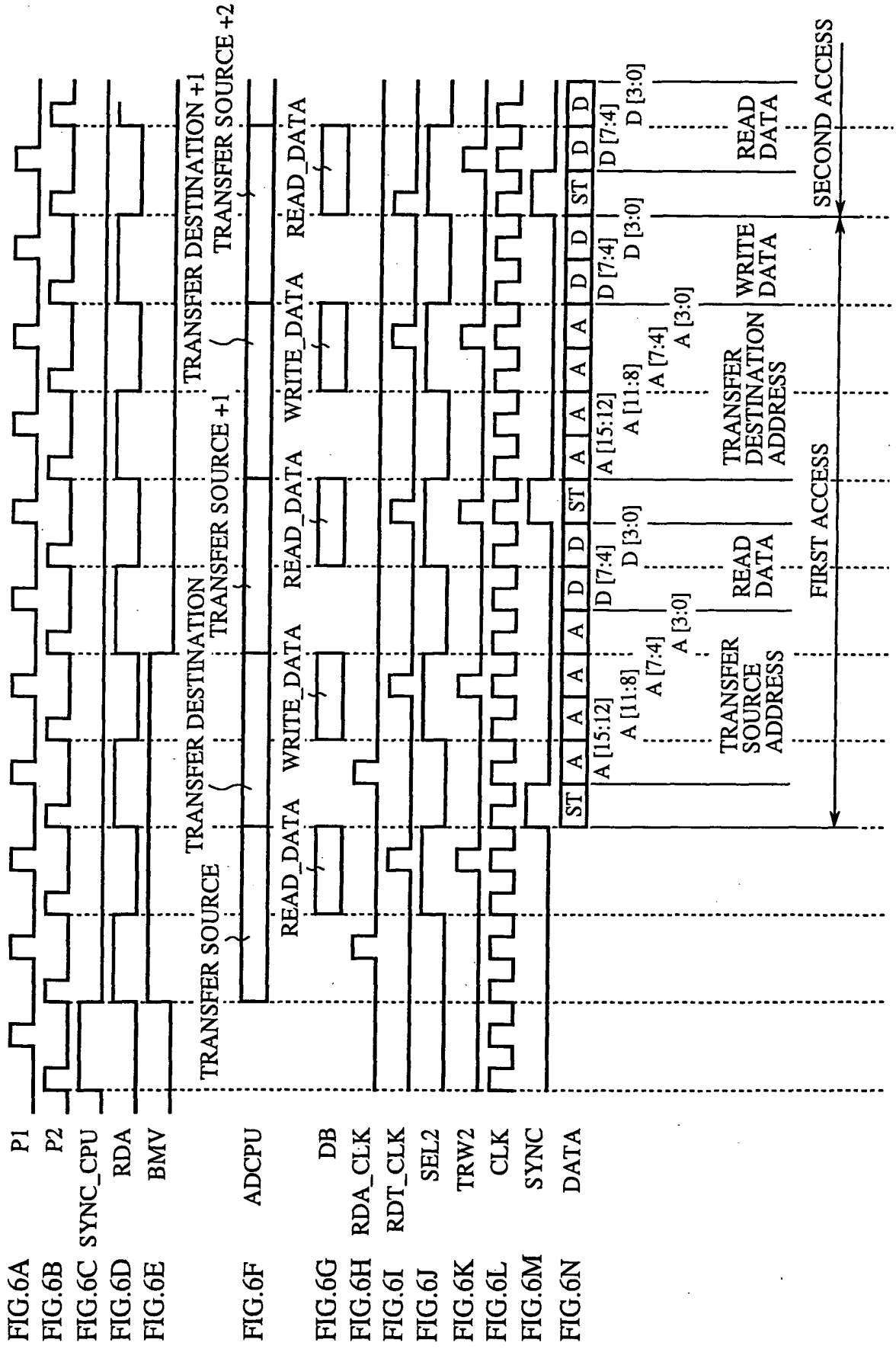

P1
P2
SYNC_CPU
RDA
BMV
ADCPU
DB
RDA_CLK
RDT_CLK
SEL2
TRW2
CLK
SYNC
DATA
FIG.6A
FIG.6B
FIG.6C
FIG.6D
FIG.6E
FIG.6F
FIG.6G
FIG.6H
FIG.6I
FIG.6J
FIG.6K
FIG.6L
FIG.6M
FIG.6N
TRANSFER SOURCE
TRANSFER DESTINATION
TRANSFER SOURCE +1
TRANSFER DESTINATION +1
TRANSFER SOURCE +2
READ_DATA
WRITE_DATA
ST
A
D
A [15:12]
A [11:8]
A [7:4]
A [3:0]
D [7:4]
D [3:0]
TRANSFER SOURCE ADDRESS
TRANSFER DESTINATION ADDRESS
READ DATA
WRITE DATA
FIRST ACCESS
SECOND ACCESS

FIG.7 (PRIOR ART)

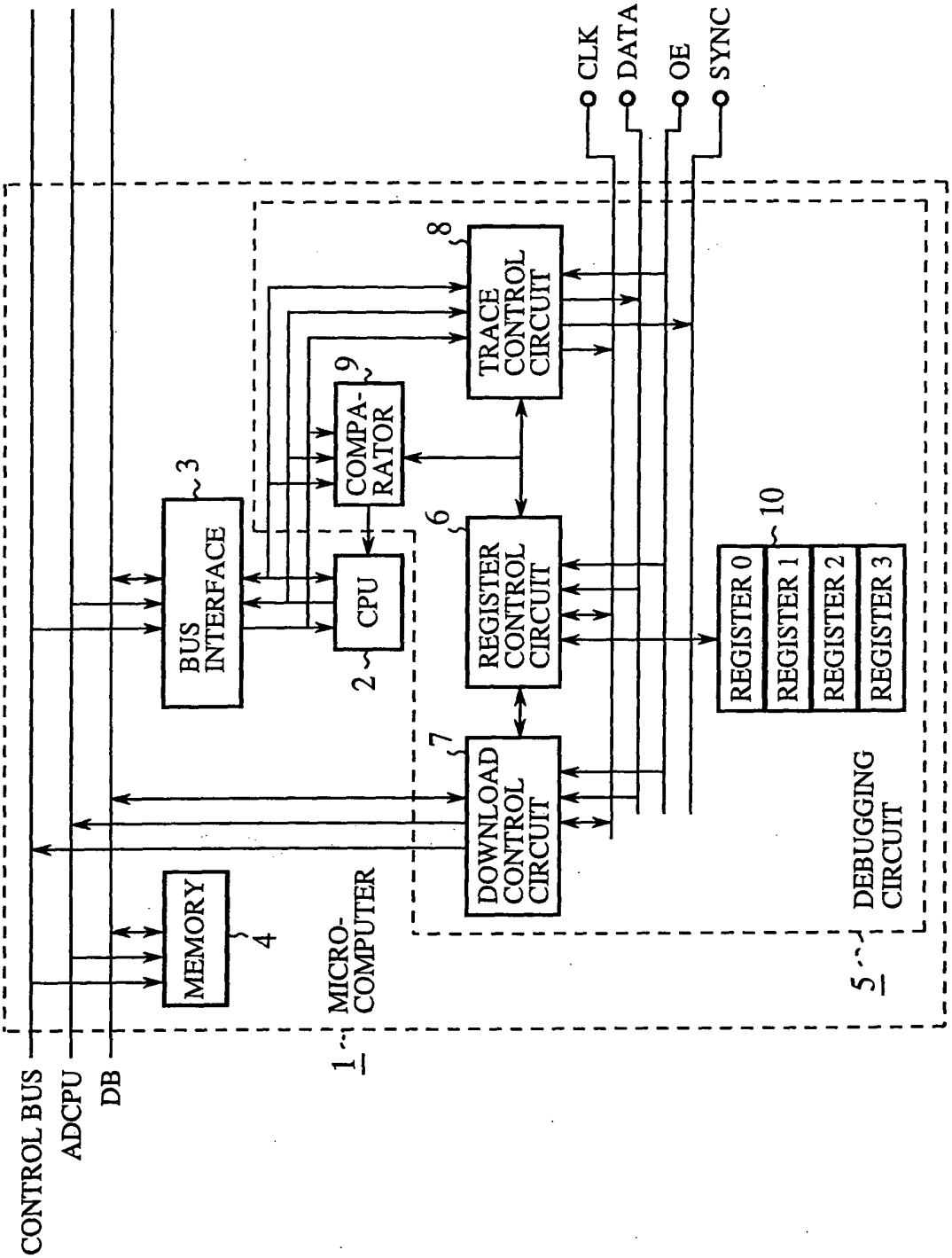
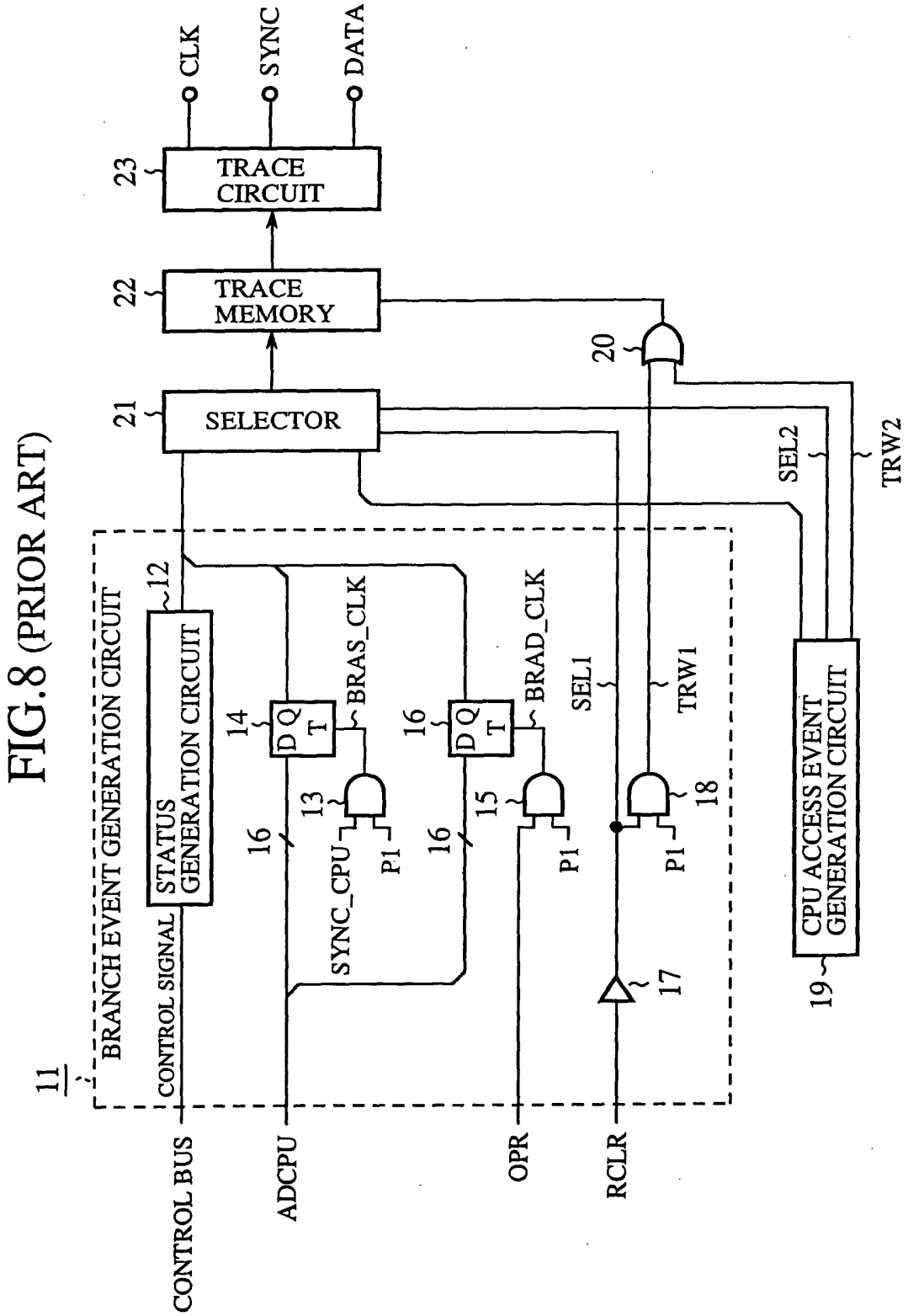


FIG.8 (PRIOR ART)



PRIOR ART

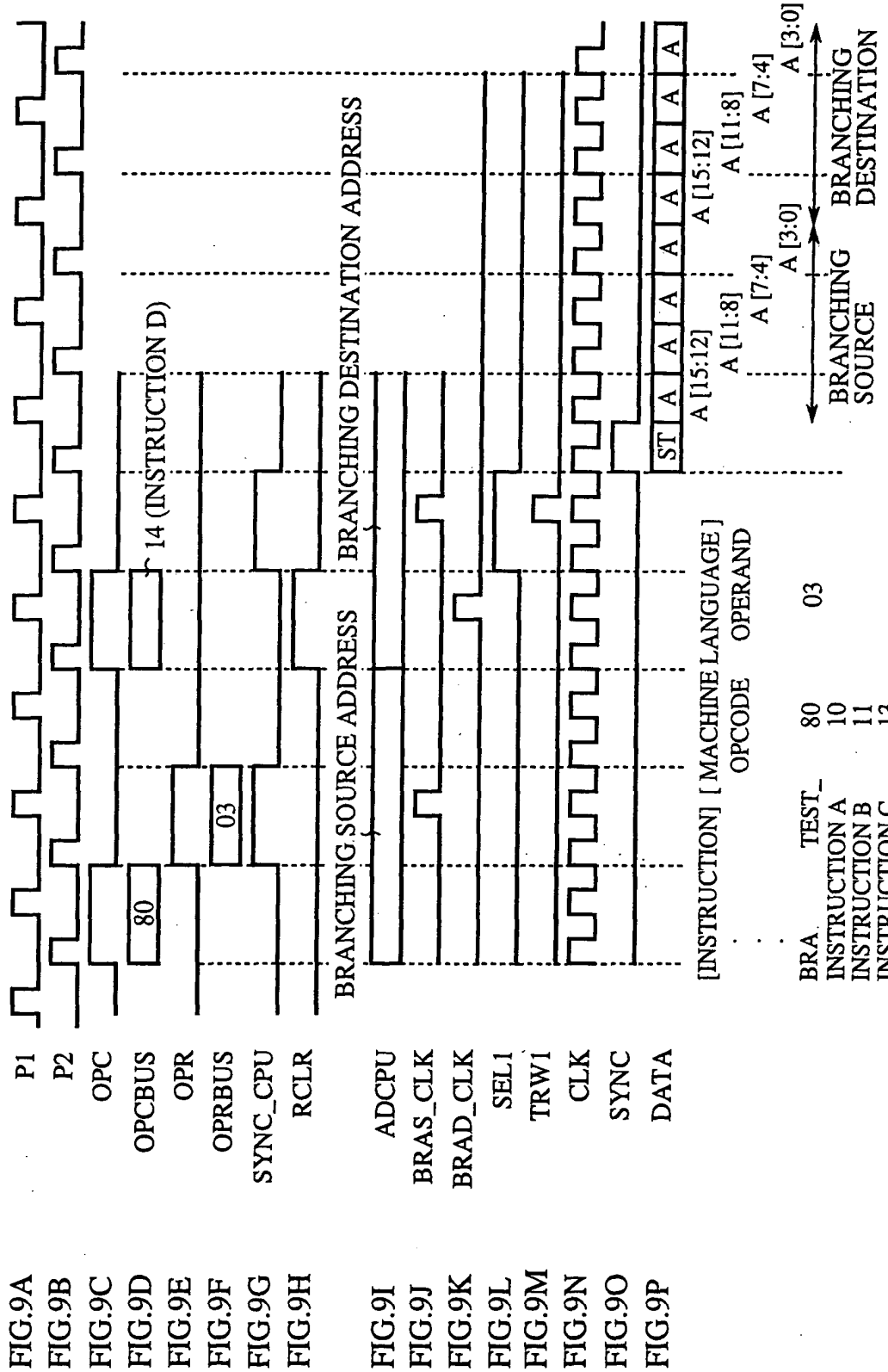
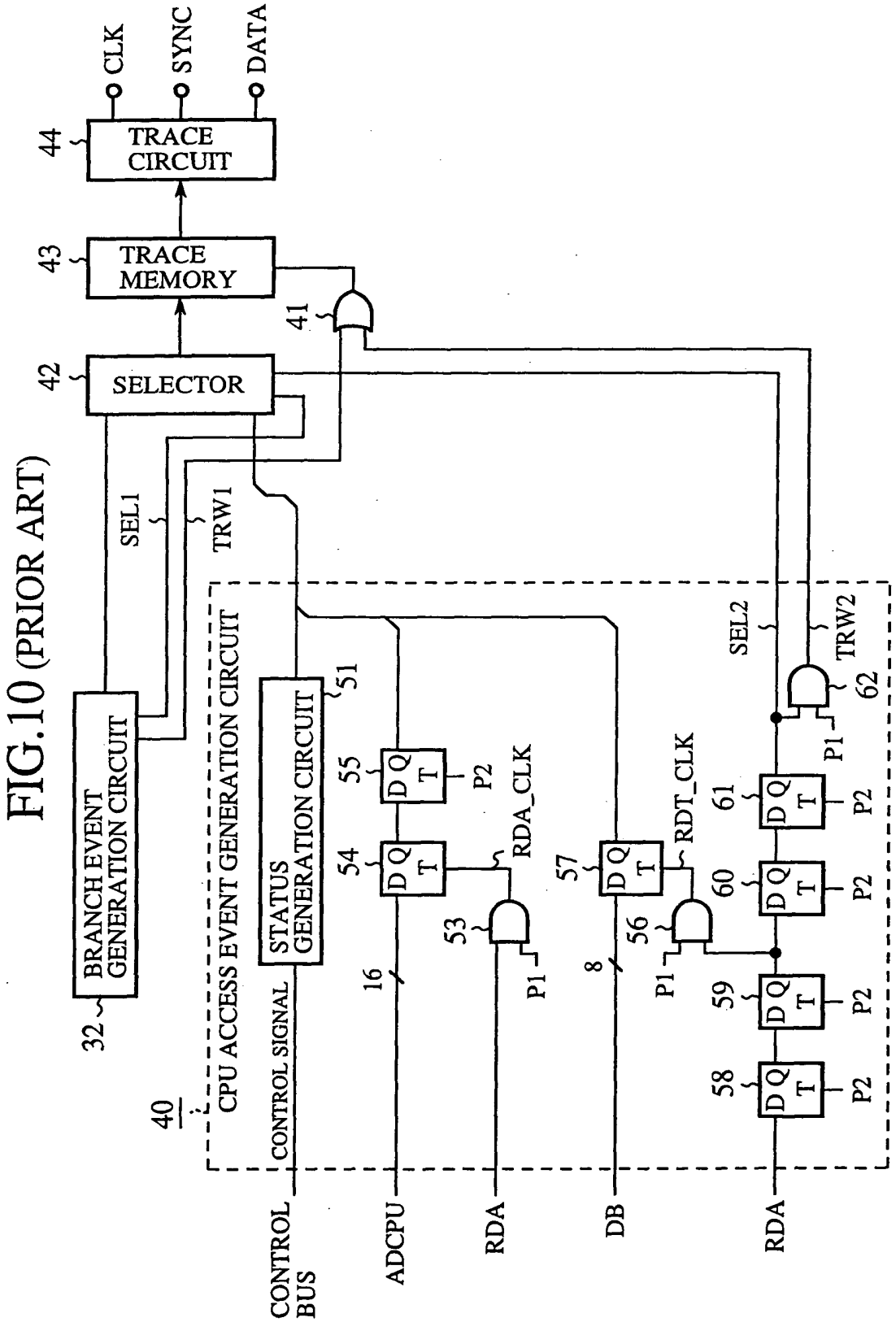


FIG.9A
FIG.9B
FIG.9C
FIG.9D
FIG.9E
FIG.9F
FIG.9G
FIG.9H
FIG.9I
FIG.9J
FIG.9K
FIG.9L
FIG.9M
FIG.9N
FIG.9O
FIG.9P

FIG.10 (PRIOR ART)



PRIOR ART

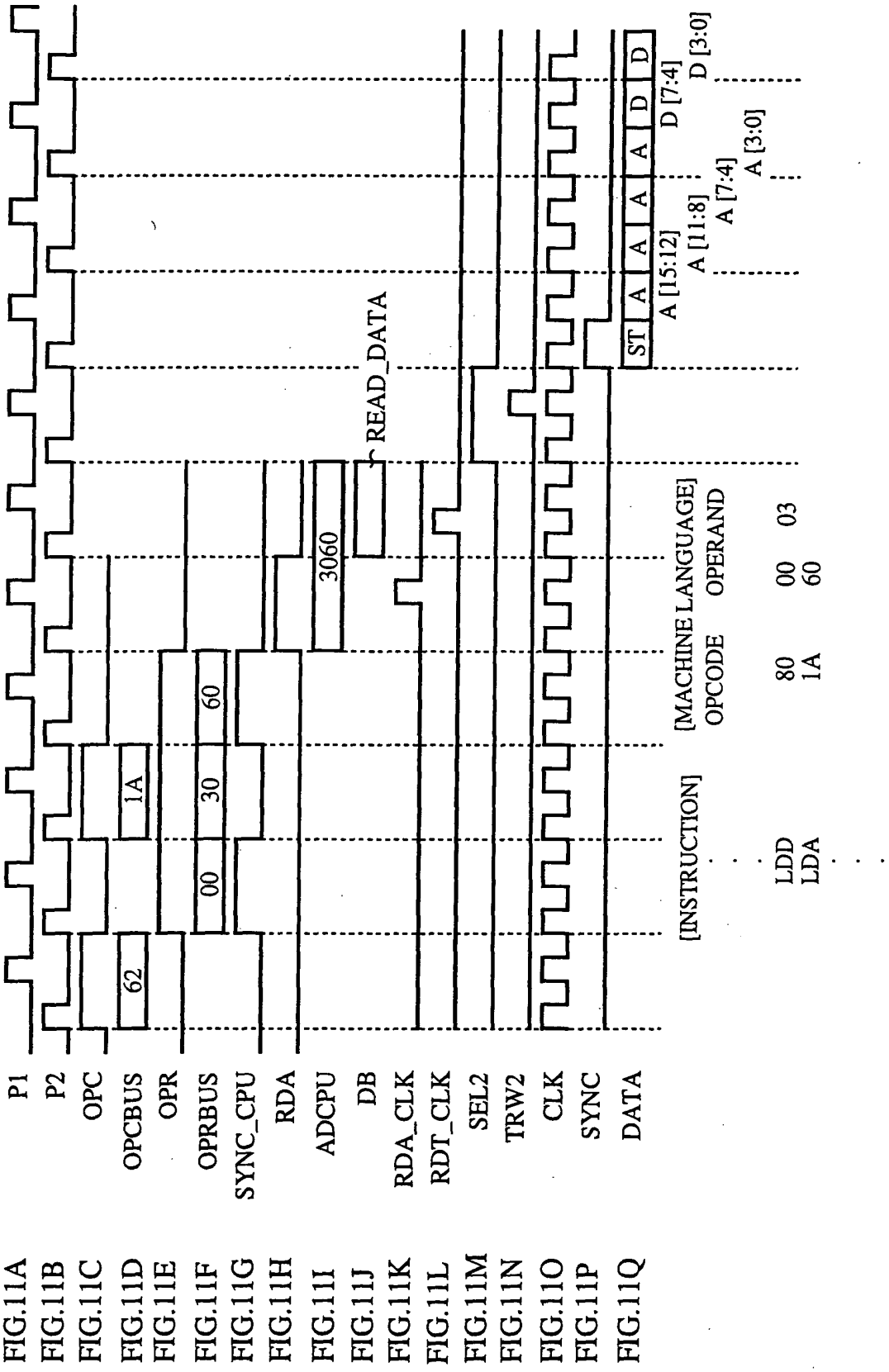


FIG.11A
FIG.11B
FIG.11C
FIG.11D
FIG.11E
FIG.11F
FIG.11G
FIG.11H
FIG.11I
FIG.11J
FIG.11K
FIG.11L
FIG.11M
FIG.11N
FIG.11O
FIG.11P
FIG.11Q

PRIOR ART

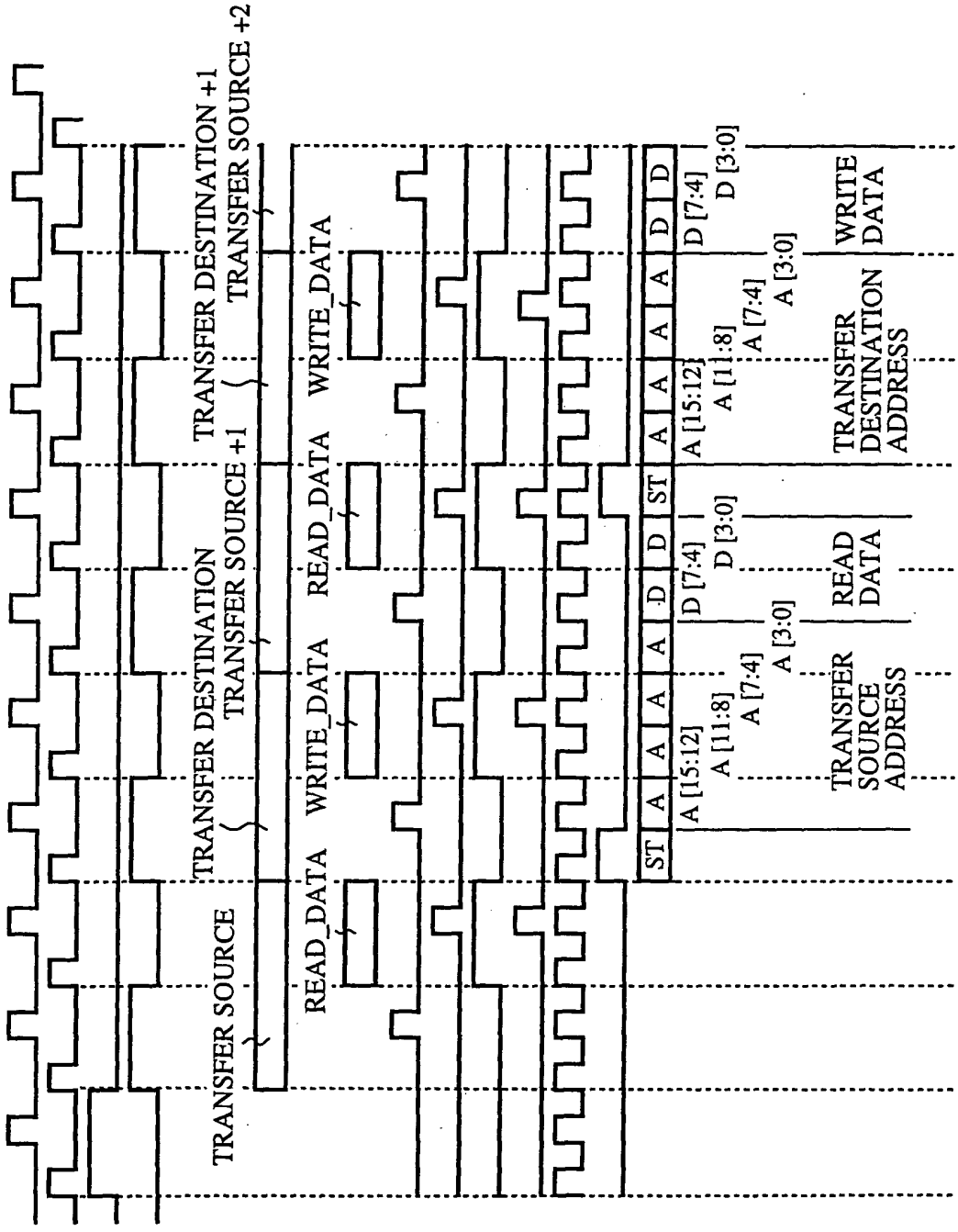


FIG.12A FIG.12B FIG.12C FIG.12D FIG.12E FIG.12F FIG.12G FIG.12H FIG.12I FIG.12J FIG.12K FIG.12L FIG.12M